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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/642,642	08/22/2000	SHINGO SUZUKI	107100	9149	
25944 75	590 04/28/2005		EXAMINER		
OLIFF & BERRIDGE, PLC			NGUYEN, KIMNHUNG T		
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
	.,		2674		

DATE MAILED: 04/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

					1			
Office Action Summary		Applicatio	n No.	Applicant(s)	— V			
		09/642,642	2	SUZUKI, SHINGO				
		Examiner		Art Unit				
		Kimnhung		2674				
Period fo	The MAILING DATE of this communication Reply	on appears on the	cover sheet with the d	correspondence address				
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT insions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicati a period for reply specified above is less than thirty (30) days to period for reply is specified above, the maximum statutory ure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no ever ion. s, a reply within the statut period will apply and will apply and will attacts a statute, cause the applier.	nt, however, may a reply be tin cory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this communic D (35 U.S.C. § 133).	cation.			
Status								
1) 又	Responsive to communication(s) filed on	21 October 2004						
·		This action is no						
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	4) Claim(s) 2 and 9-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 2 and 9-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers							
-	The specification is objected to by the Exa The drawing(s) filed on is/are: a) Applicant may not request that any objection t	accepted or b)	_ •					
11)	Replacement drawing sheet(s) including the control of the control	•						
Priority (ınder 35 U.S.C. § 119							
a)(Acknowledgment is made of a claim for fo All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Bee the attached detailed Office action for	ments have been ments have been priority documer sureau (PCT Rule	received. received in Applications have been received 17.2(a)).	on No ed in this National Stage	ı			
Attachmen	t(s) e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) Notic 3) Infor	e of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date	SB/08)	Paper No(s)/Mail Da					

DETAILED ACTION

This Application has been examined. The claims 2 and 9-14 are pending. The examination results are as following

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 2, 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokota et al. (US patent 5,764,315) in view of Sawayama (US 6,048,071).
- 3. Regarding claim 2, Yokota et al. disclose in figures 14 and 28, a spread illuminating apparatus in which a square transparent substrate (60) is provided close to the surface of a liquid crystal panel (see abstract), and a plurality of straight groove portions (61a, 61b) are form on the surface of the transparent substrate intersecting one another obliquely with respect to the four sides of the transparent substrate so as to reflect light toward said liquid crystal panel (see a planar lighting device, see column 5, lines 24-29). However, Yokota et al. do not disclose whereby light traveling in a direction substantially parallel to the major surface of the transparent substrate is reflected at said plurality of straight groove portions in a direction substantially perpendicular to the major surface of the transparent substrate so as to travel toward the liquid

crystal panel. Sawayama discloses in figures 1 and 2(b), a front light (20) traveling and passed through the groove in a direction may be substantially parallel to the major surface of the transparent substrate (2) is reflected at said plurality of straight groove portions in a direction substantially perpendicular to the major surface of the transparent substrate so as to travel toward the liquid crystal display element (10, see abstract, see col. 12, lines 12-28). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the light traveling and passed through the groove in a direction may be substantially parallel to the major surface of the transparent substrate so as to travel toward the liquid crystal display element as taught by Sawayama into the spread illuminating apparatus in which a square transparent substrate of Yokota et al. because this would provide so as to incline with respect to the normal direction of the light exit surface.

- 4. Regarding claims 9-11, Yokota et al. disclose that the wherein the groove portions are substantially triangular in cross section (see figures 5, 21), and wherein the interval between the groove portion is decrease as the distance from the bar-like light source (see figure 11, see the angle of two slops of convex and concave, see column 6, lines 7-25), or the depth of the groove portions is increased as the distance from the bar-light source increase (see the dept of convex and concave, see column 6, lines 18-49).
- 5. Regarding claims 13-14, Yokota et al. disclose that wherein-the bar-like light source comprises a bar-like fluorescent tube (33) and the bar-like light source also includes an inherent bar-like transparent light conductive member and a light emitting diode which is provided at the

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end portion of the bar-like transparent light conductive member (see column 1, lines 39-44, see figure 4, column 2, lines 51-55).

Regarding claim 12, Yokota et al. disclose every feature of the claimed invention, excluding the bar-like light source is in the range of 10 to 45 degrees. From the claims, it would have been obvious to one of ordinary skill in the art to the Yokota et al.'s system to have the bar-like light source is in the range of 10 to 45 degrees as claimed since such a modification would have involved a mere change in the range of the system. A change in range is generally recognized as being within the level of ordinary skill in the art, absent unexpected results.

See <u>In re Rose</u>, 105 USPQ 237 (CCPA 1995) and In re Raven, 156 USPQ 679 (CCPA 1968).

Response To Arguments

6. Applicant argues that Egawa (6,295, 104) is disqualifiled as prior art against the present application invention because the subject matter of Egawa and the present application "were at the time the invention was made, owned by the same person and subject to an obligation of an assignment to the same person". Therefore, Examiner has replaced a new ground rejection.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number is (571) 272-7698. The examiner can normally be reached on MON-FRI, FROM 8:30 AM-5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimnhung Nguyen April 25, 2005

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PRIMARY EXAMINER
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